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Dual DT 450

Dual DT 450 Turntable Instruction Manual

INTRODUCTION

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your Dual DT 450 manual turntable. Designed for optimal audio quality, this belt-driven turntable features a high-quality wooden housing, a balanced tonearm with adjustable tracking force, and an integrated switchable phono pre-amplifier. Please read these instructions carefully before using your turntable to ensure proper function and longevity.

PRODUCT OVERVIEW

The Dual DT 450 turntable is engineered to deliver an exceptional vinyl listening experience. Its robust construction and thoughtful features ensure stable playback and clear sound reproduction.

Key Features:

- **Design:** High-quality wooden housing for stable operation and a puristic aesthetic.
- **Flexibility:** Connects to traditional HiFi systems via phono or AUX input; supports two speeds (33/45 RPM).
- **Pre-amplifier:** Built-in switchable phono pre-amplifier for easy connection.
- **Magnetic Pickup System:** Features an Audio Technica AT 3600 cartridge with pre-set tracking force and a damped tonearm lift.
- **Included Accessories:** Turntable unit, platter with drive belt, counterweight, platter mat, dust cover, center puck, and user manual.

Product Views:



Overall view of the Dual DT 450 Turntable with its dust cover.



Detailed view of the Audio Technica AT 3600 magnetic pickup system on the tonearm.



The Dual DT 450 Turntable with its transparent dust cover in the open position.



The Dual DT 450 Turntable with its transparent dust cover in the closed position, protecting the platter and tonearm.

SETUP GUIDE

Follow these steps to correctly set up your Dual DT 450 turntable.

1. **Unpacking:** Carefully remove all components from the packaging. Ensure all accessories listed in the product overview are present.
2. **Placement:** Place the turntable on a stable, level surface away from direct sunlight, heat sources, and strong vibrations.
3. **Platter and Belt Installation:** Place the platter onto the spindle. Carefully install the drive belt around the inner rim of the platter and around the motor pulley.
4. **Counterweight Installation:** Slide the counterweight onto the rear of the tonearm. Rotate it until the tonearm is balanced and floats freely. Then, adjust the counterweight to the recommended tracking force (refer to cartridge specifications, typically around 2-3 grams for the AT3600).
5. **Anti-Skating Adjustment:** Set the anti-skating dial to match the tracking force you set. This helps prevent the stylus from skipping across the record.
6. **Dust Cover Installation:** Attach the dust cover hinges to the rear of the turntable unit.
7. **Power Connection:** Connect the power adapter to the DC input on the rear of the turntable, then plug it into a wall outlet.
8. **Audio Connection:** Connect the RCA cables from the turntable to your amplifier or receiver. Use the PHONO input if your amplifier has one and switch the turntable's internal pre-amplifier to 'OFF'. If your amplifier only has AUX/LINE inputs, switch the turntable's internal pre-amplifier to 'ON' and connect to an available AUX/LINE input. Ensure the ground wire is connected to your amplifier's ground terminal if available.

Setup Demonstration Video:

Your browser does not support the video tag.

This video demonstrates the general setup and operation of a turntable. While it may feature a different model, the basic principles of assembly and connection are applicable to the Dual DT 450.

OPERATING INSTRUCTIONS

Once your Dual DT 450 is set up, follow these steps to play your vinyl records.

1. **Power On:** Turn the power switch to the 'ON' position. The platter will begin to rotate.
2. **Place Record:** Carefully place your vinyl record onto the platter. If playing a 45 RPM single, use the included center puck.
3. **Select Speed:** Choose the correct playback speed (33 or 45 RPM) using the speed selector switch.
4. **Lift Tonearm:** Use the tonearm lift lever to raise the tonearm.
5. **Position Tonearm:** Gently move the tonearm over the desired starting groove of the record.
6. **Lower Tonearm:** Slowly lower the tonearm using the tonearm lift lever. The stylus will descend onto the record, and playback will begin.
7. **Adjust Volume:** Adjust the volume on your connected amplifier or receiver to your desired listening level.
8. **Stopping Playback:** At the end of the record, or when you wish to stop, use the tonearm lift lever to raise the tonearm, then return it to its rest. Turn the power switch to 'OFF'.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your turntable.

- **Dust Cover:** Clean the dust cover with a soft, dry cloth. Avoid abrasive cleaners that may scratch the surface.
- **Stylus Care:** Gently clean the stylus regularly using a soft brush designed for stylus cleaning, brushing from back to front. A dirty stylus can degrade sound quality and damage records.
- **Record Cleaning:** Keep your records clean to prevent dust and debris from accumulating on the stylus and affecting playback. Use a dedicated record cleaning brush or solution.
- **General Cleaning:** Wipe the turntable chassis with a soft, slightly damp cloth. Do not use harsh chemicals.
- **Belt Inspection:** Periodically check the drive belt for wear or stretching. Replace if necessary to maintain accurate playback speed.

TROUBLESHOOTING

If you encounter issues with your Dual DT 450, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|----------------------------|--|---|
| No sound or very low sound | Incorrect audio connection; Pre-amplifier switch setting; Amplifier input selection; Stylus not properly seated. | Check RCA cable connections. Ensure pre-amplifier switch is set correctly (ON for AUX, OFF for PHONO). Select the correct input on your amplifier. Verify stylus is securely attached to the cartridge. |
| Distorted or muffled sound | Dirty stylus; Incorrect tracking force; Damaged stylus; Worn record. | Clean the stylus. Re-adjust tracking force. Replace the stylus if damaged. Try a different record. |

| Problem | Possible Cause | Solution |
|--------------------------------|---|--|
| Turntable platter not spinning | Power not connected; Drive belt dislodged or broken; Motor issue. | Ensure power adapter is connected and plugged in. Check if the drive belt is properly seated around the platter and motor pulley. If the issue persists, contact customer support. |
| Record skipping | Dust/debris on record or stylus; Incorrect tracking force or anti-skating; Turntable not level; Damaged record. | Clean record and stylus. Re-adjust tracking force and anti-skating. Ensure turntable is on a level surface. Inspect record for damage. |

TECHNICAL SPECIFICATIONS

| Feature | Specification |
|----------------------------|--|
| Brand | Dual |
| Model Name | DT 450 |
| Model Number | 75268 |
| Style | Manual Turntable |
| Color | Black |
| Material | Wood |
| Product Dimensions | 43.5 x 36.7 x 14.4 cm |
| Item Weight | 6 Kilograms |
| Maximum Rotation Speed | 45 RPM |
| Special Features | Built-in pre-amplifier, Dust cover, Adjustable speed |
| Voltage | 12 Volt |
| Power Source | DC (Gleichstrom) |
| Signal-to-noise ratio (dB) | 60 dB |

WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your product or visit the official Dual website. Keep your proof of purchase for any warranty claims.